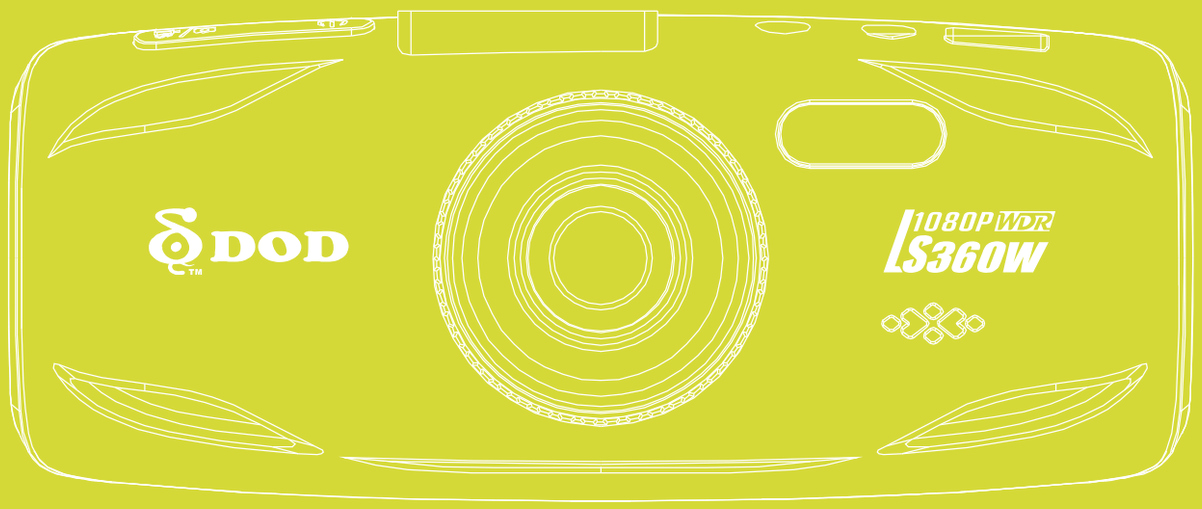
DOD™ www.dod-tec.com



LS360W

USER MANUAL
MANUEL DE L'UTILISATEUR

Copyright© 2014 DOD Tech
All Rights Reserved

Table of Contents

Safety Precautions....3
Package Contents....4
Camera Controls....5
Getting Started....7
Installing Your Camera....10
Basic Camera Operation....12
Camera Modes....13
  Video Recording Mode.... 13
  Photo Mode....14
  Playback Mode....15
Camera Settings....16
  Video Recording Settings....16
  Photo Settings....19
  Video Playback Settings.... 20
Transferring Files.... 21
Video Output.... 21
DOD Video Player.... 22
Firmware Update.... 23

Safety Precautions

- **Do not disassemble, repair, or modify your camera or power related accessories**
  For warranty service, please contact your local DOD Tech support service.

- **Avoid exposing your camera to extended periods of humidity and/or heat**
  Prolonged exposure may reduce the camera's lifespan.

- **Do not spray water or cleaning agents directly onto the camera**
  Fluids may cause fire, electric shocks or malfunctions.

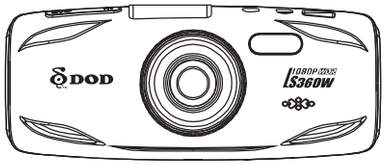
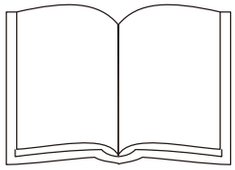
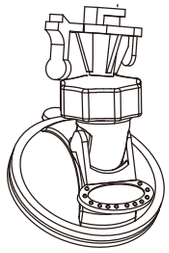
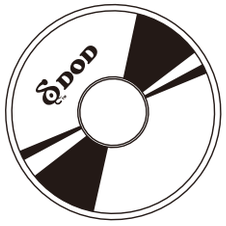
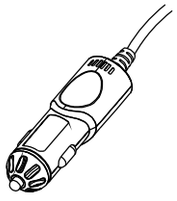
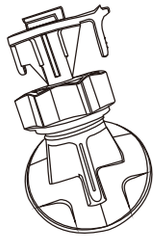
- **Do not adjust the camera while driving**

- **Avoid installing the camera where it may obstruct the driver's view or airbags deployment**

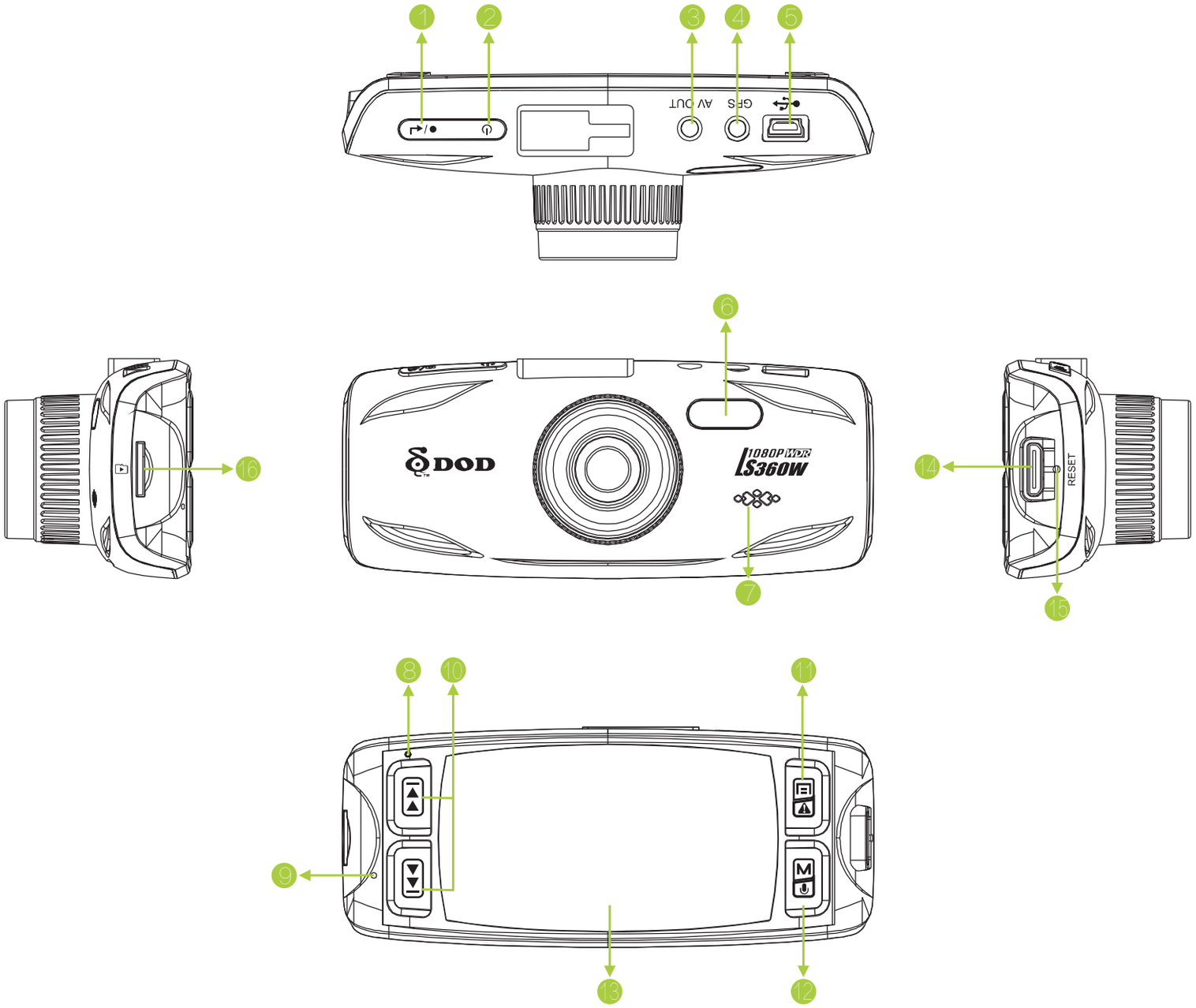
- **Only use the power adapter supplied with your unit.**
  Other power adapters may create a safety hazard or damage the unit.

- **Do not use a damaged power adapter or power cord.**
  If damaged, disconnect the power adapter and contact DOD Tech Support for assistance.

Package Contents

❶  DOD LS360W Dash Camera	❷  User manual	❸  Suction Mount
❹  DOD Player Installation CD	❺  Power Adapter	❻  Adhesive Tape Mount

Camera Controls



Camera Controls

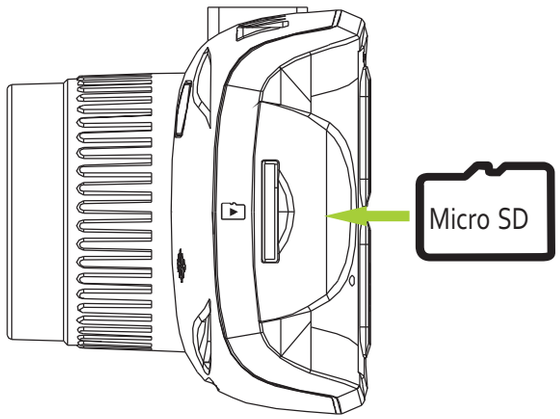
1. **Record / Select Button[● / ↵]**
   Video Mode: Start/Stop Recording
   Camera Mode: Takes a Photo
   Video Playback Mode: Play / Pause Video
   Settings Mode: Selects Highlighted Item
2. **Power Button [⏻]**
   Turn on/off the unit.
3. **A/V Video Out Port**
4. **GPS Input Port**
   Connect with the G-mouse (optional).
5. **USB Port**
6. **LED Flashlight**
7. **Speaker**
8. **LED Notification Light**
9. **Microphone**
10. **Arrow Keys/[⏮] , [⏭]**
    Used to navigate through menus and select videos for playback
11. **Menu/SOS Emergency File Lock/[☰ ⚠]**
    Access the settings menu when not recording video. Press while recording videos to lock the current file from being overwritten.
12. **Change Mode / Mutes Microphone[Ⓜ 🎙]**
    Changes mode while not recording videos.
    Press and hold while recording to mute / unmute the microphone.
13. **LCD Screen**
14. **HDMI Port**
15. **Reset Button**
    If camera freezes, use a small pin to press button.
16. **Micro SD Slot**

Getting Started

Watch the Video
Before you start, watch our installation video at http://dod-tech.ca/GetStarted

Setting Up Your Camera
Set up your camera inside your vehicle to ensure easy access to power.

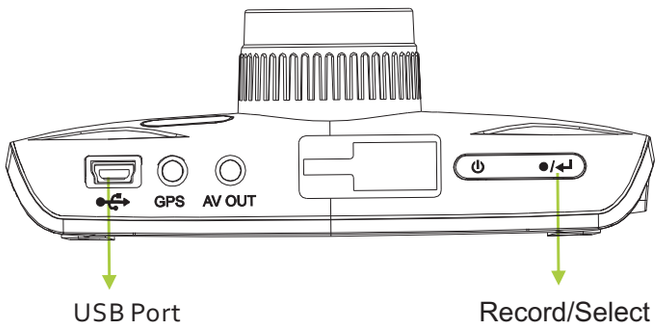
1. Insert the Memory Card



*Note: Please purchase a micro SD card for use with this unit.

2. Connect the Power Adapter

Plug the DOD power adapter into your vehicle's power outlet and insert the USB plug into the USB port.



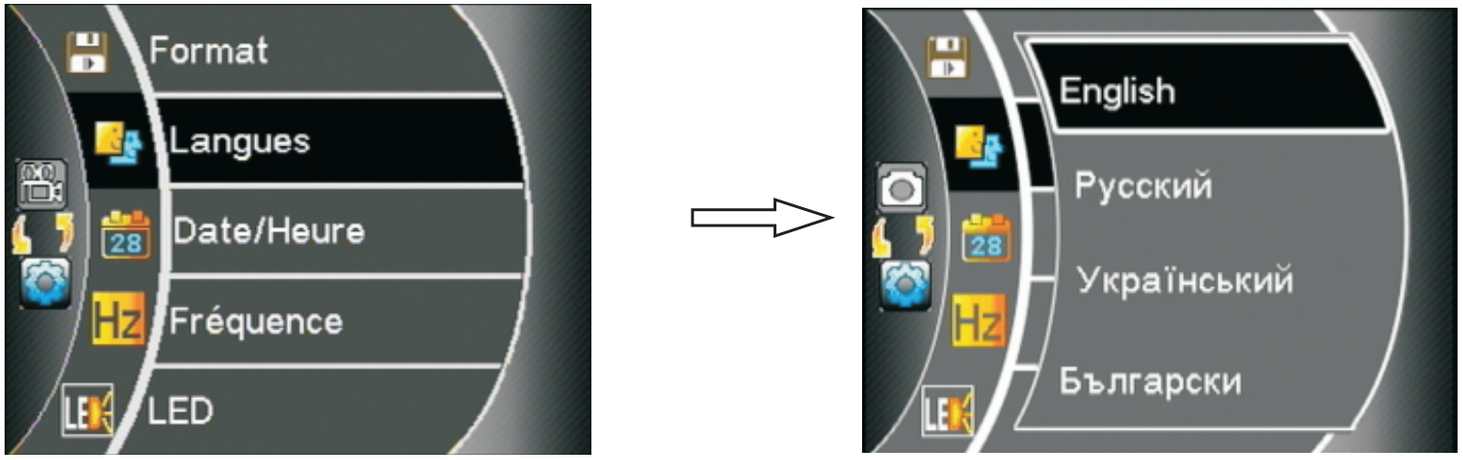
Getting Started

3. Turn On Your Vehicle.

In most vehicles this will send power to the outlet and automatically turn on your camera. In some vehicles the power outlet is continuously powered even when the vehicle is off.

4. Select Language

Upon powering up the camera for the first time, use the arrow keys located on the left side of the LCD Screen and select the language of your choice. Press the “record/select” button found on top of your unit to confirm your selection.



5. Turn off recording.

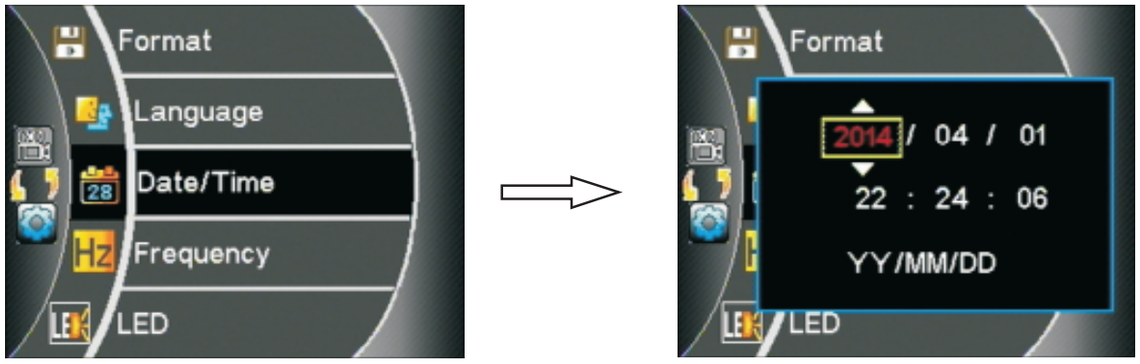
In order to access the menu to setup the time and date you will need to turn off the recording. Press the “record/select” button. You should no longer see a flashing red dot on the screen.

Getting Started

6. Set the Time zone

GPS Not Installed?

Press the menu button [⚠ ☰] twice while your camera is not recording. This will access the second settings page. Scroll down using the arrow keys and select "Date/Time". Move between values using the record/select button [●/↵]. Use the arrow keys to adjust the values.

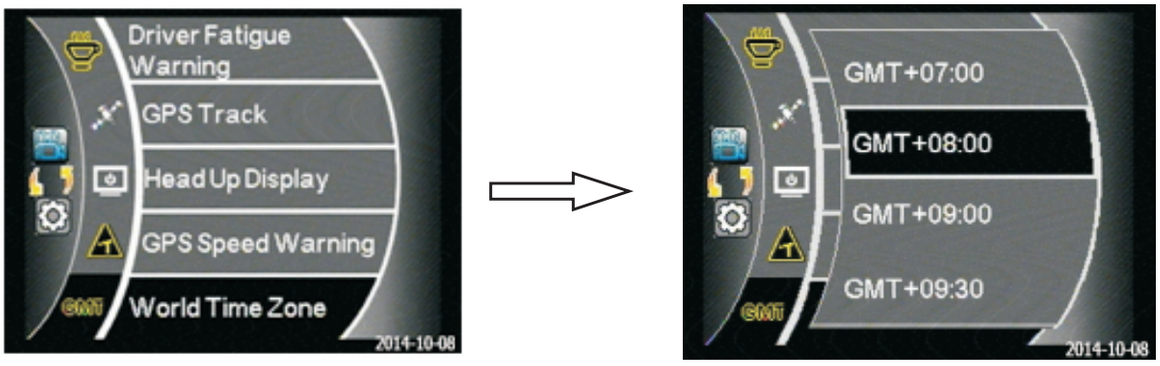


GPS Installed?

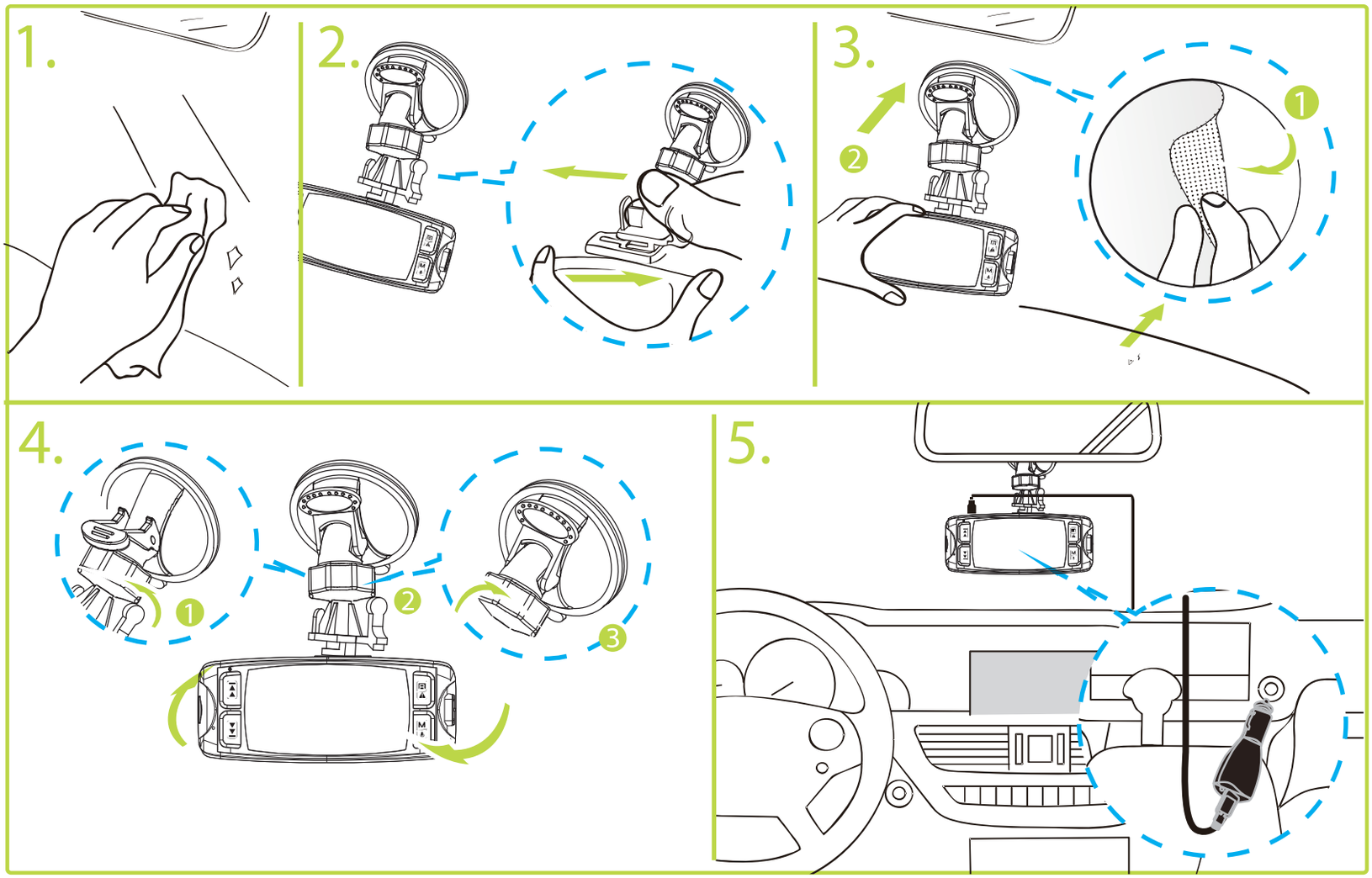
Your LS360W will automatically sync the time and date to the atomic clock once the time zone is correctly set.

Press the Menu button [☰⚠]. Inside, scroll down and select “World Time Zone”. Find and select your respective time zone. Press the “record/select button” [●/↵]

*Note: The time zone must be manually adjusted for daylight savings



Installing Your Camera



1. Clean Windshield

Wipe down both the interior and exterior glass for the best image quality and to keep the mount secured to the windshield.

Installing Your Camera

2. Attach suction or tape mount to your camera.

Both mounts are secure. The suction mount is reusable. The tape mount is smaller and reduces vibrations but is harder to remove.

3. Install the Mount

Find a location which does not obstruct your view when driving. DOD Tech recommends placing the camera behind the rear view mirror. Be sure to peel the protective cover from the mount before installing.

4. Adjust the Angle

The mount has an easy to adjust ball joint which can be loosened using the plastic locking nut. Angle your camera slightly below the horizon line to minimize glare.

5. Install the Cigarette Adapter

If you have not done so previously plug the cigarette adapter into your vehicle's power port. Insert the USB plug (opposite end of the power) into the USB port on the camera. The wiring can be hidden in the headliner and the carious seams and rubber strips around the perimeter of the windshield.

6. Remove the Protective Lens Cover

7. Install the GPS Module (Optional)

If you have purchased the optional GPS module (DG50A), insert the connector into the camera.

Your camera is now installed and ready for daily use.

Tips:

- Do not turn on motion detection unless your vehicle is parked. If motion detection is enabled while driving, the camera may not continuously record.
- It is recommended to keep the G-Sensor set to low.

Basic Camera Operation

Everyday Operation

Your dash camera will automatically turn on and start recording when it starts receiving power.The camera will record over the oldest videos when the memory card is full (looped recording) by default.

Continuously Powered Electrical Outlet

If your electrical outlet is always powered, the adapter must be manually removed to shut down the camera. Alternatively, the camera may be left on while parked to capture collisions while you are away.

This operation will slowly drain your vehicle's battery and may eventually prevent your vehicle from starting.

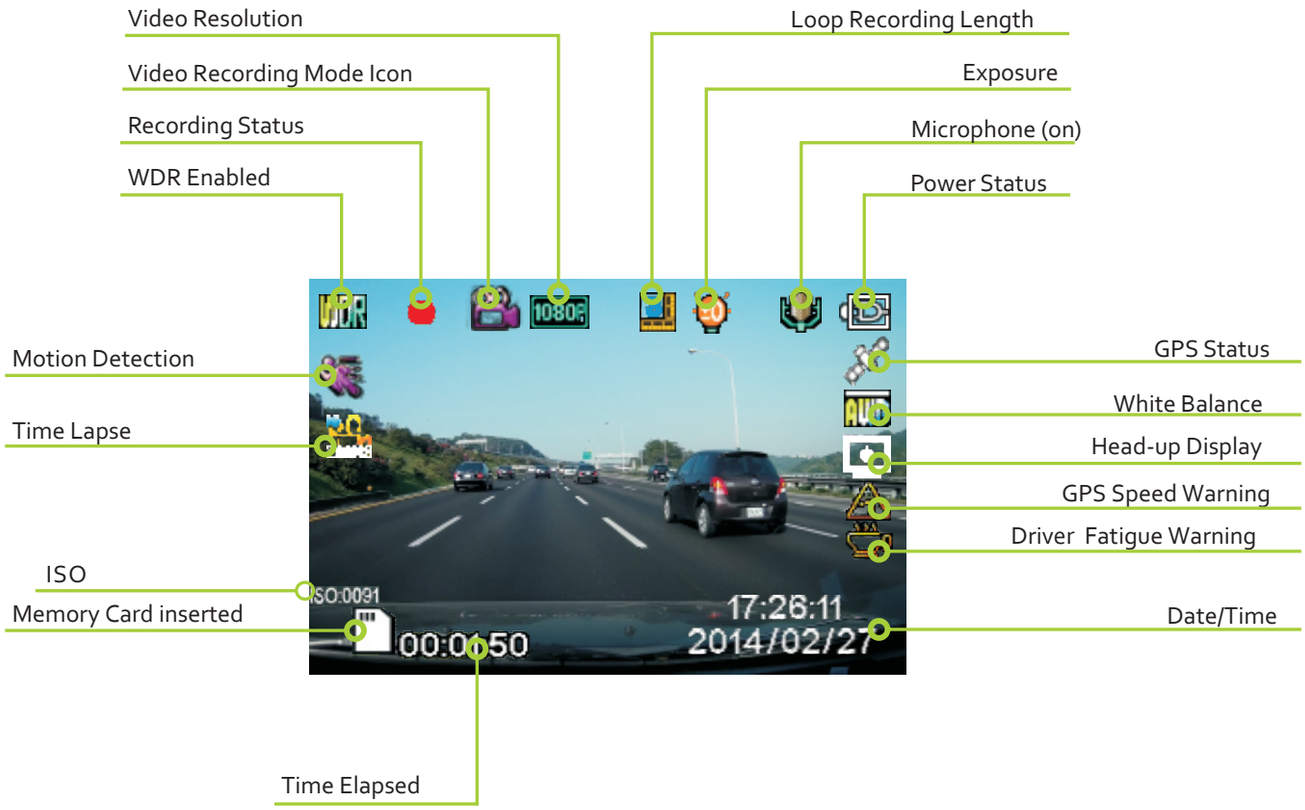
Manually Turning On / Off Your Camera

Press the power button [⏻] to turn on/off your camera. Press the record/select [●/↵] button to begin recording.

Camera Modes

When the camera is not recording video, you can switch between three modes by pressing the mode button [MD]:
1. Video Recording 2. Photo 3. Video Playback.

Video Recording Mode
The camera defaults to video recording when the camera is first turned on.



LED Light Notification
- **Steady Blue** – Powered off and is charging
- **Steady Pink** – Powering up while charging or is in playback mode
- **Steady Red** – In Standby Mode
- **Flashing Red** – Recording video, not charging
- **Flashing Blue and Pink** – Recording video and charging

Camera Modes

Video Recording Shortcuts

Muting the Microphone

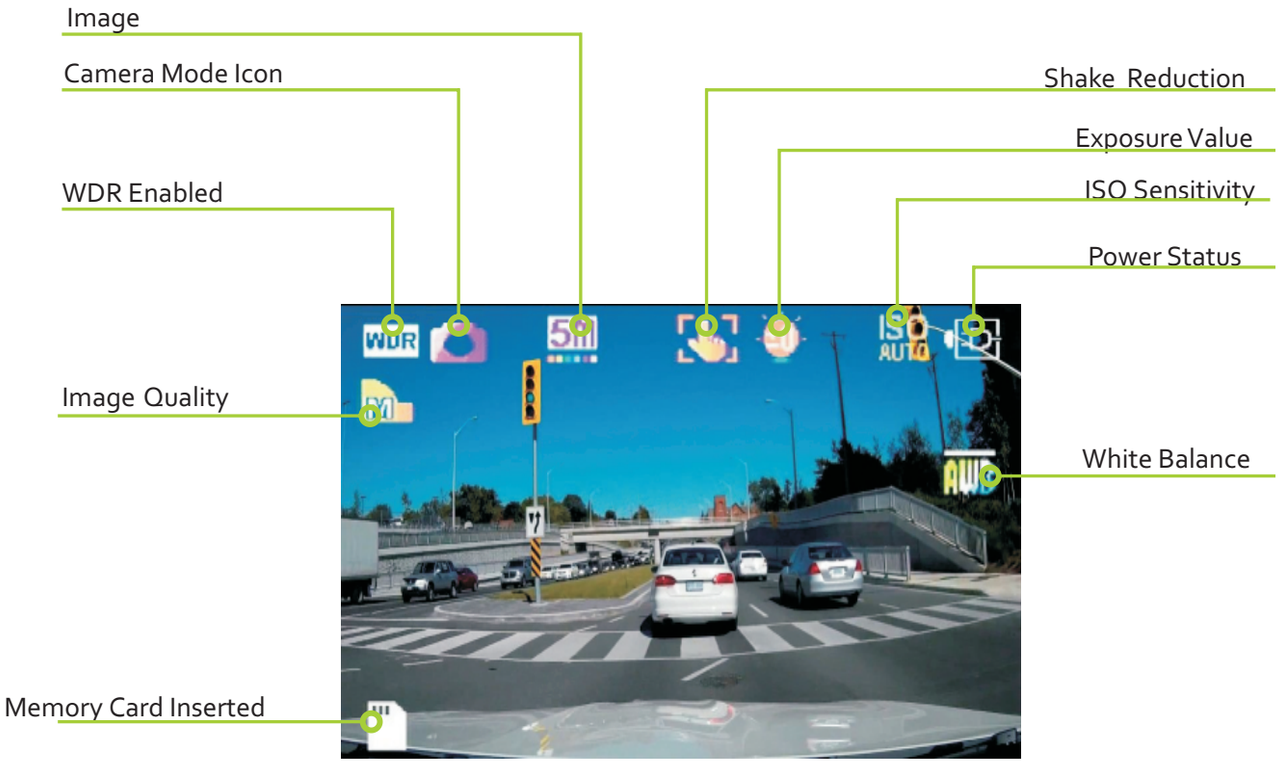
Hold down the Mode/Microphone button[ ] to mute and unmute the microphone.

SOS/Emergency Lock

Pressing the Menu/SOS [ ] lock while a video is playing will lock the camera from overwriting the video

Photo Mode

In Photo Mode press the record/select [●/↵] button to take a photo.



Camera Modes

Playback Mode

In the Playback mode you can watch previously recorded videos.

- Selecting a Video
  Use the arrow keys [⏮ ⏭] to navigate between videos.

- How to Watch a Video
  Press the record/select button [●/↵] to play and pause. To change videos or access the menu while paused press the mode button [MD] before using the arrow keys [⏮ ⏭].

Camera Settings

Each mode has a unique set of settings. See the description below.

Video Recording Settings

There are two settings pages. Access the second page by pressing the menu button [ ] twice. If you move the cursor before pressing the menu button, you must exit and try again

First Video Settings Page

Date Stamp
Imprints the time and date on the recorded video.

Driver Fatigue Warning
Sets a timed delay before showing a visible alert reminding the driver to take a break.

Exposure
Sets the brightness/darkness of the video. Bright Video? Set between -1 to -3. Dark Video? +1 to +3
Recommended Setting: 0

GPS Speed Warning
Shows a visual warning on the Heads Up Display when the set speed has been exceeded.(only available when connect with GPS signal)

GPS Track
Turns on/off GPS tracking. If disabled your camera will no longer measure your speed and position nor synchronize the time/date with the atomic clock. (only available when connect with GPS signal)

Password Settings
Set a password lock which will prevent files from being deleted or the settings changed on the device.
Note: This does not prevent other users from extracting the memory card or changing the files

Plate Stamp
Imprints a customized set of 6 digits to the recorded video. Useful to add license plates or identifying features.

Record Audio
Turns on and off the microphone. This can also be changed during recording by pressing the microphone button [ ].

Resolution
Change the video resolution. Lower resolution for Smaller file sizes but this reduces video quality.
Recommended setting:1080P FHD

Camera Settings

G-Sensor
The G-Sensor measures shock forces. The settings from “low to high” determine the amount of force needed to lock the file from being overwritten.
Recommended Setting: Low

Image Rotation:
Rotates the recorded image 180°. Used if the camera is mounted on the dashboard.

Loop Recording
If loop recording is set to 2/3/5 minutes, video recordings of that length will be created. When the memory card is filled the oldest files will be overwritten (excluding locked clips). Turning off loop recording will prevent the camera from writing new files when the memory card is filled.

Motion Detection
For use when parked not when driving. Saves memory space by only recording when motion is detected. Motion detection must be manually disabled before driving. If motion detection is activated while driving you may have significant gaps in the recorded video.

Speed Units:
Select Metric or Imperial units.

Standby Speed Display
After a customized period of time a new screen will appear showing speed and a compass showing your direction. The GPS speed warning if enabled will appear on this screen.

WDR (Wide Dynamic Range)
Cannot be changed. Shows WDR processing is enabled.

White Balance
Sets the white balance.
Recommended Setting: Auto

World Time Zone
Sets the current time zone for GPS time and date calibration. Note the time zone must be manually adjusted for daylight savings.

Camera Settings

Second Video Settings Page

Accessed by pressing the menu button twice.

Beep Sound
Turns on or off all notification sounds.

Date/Time
If GPS tracking is disabled the Date and Time can be manually set.

Default Settings
Sets all settings back to the original settings.

Frequency
Adjusts the camera's frequency setting to minimize flickering and banding in the recorded video.
Recommended Setting:60 HZ in Canada/USA.

Format
Completely deletes all files including locked videos on on the memory card and optimizes the card for recording. 64GB cards should use DOD's formatting program for proper functionality. See the support section online.

Language
Sets the language.

LED
Turns on the LED light. Used as a spare flashlight, not for use while driving due to glare.

Screen Saver
Turns off the screen after the set time.

Speed Stamp
Imprints your current speed onto the recorded video.

TV Mode
Switches between the NTSC and PAL video output standard.

Version
Shows the model name and current firmware version.

Camera Settings

Photo Settings

Accessed in “Photo Mode”.

Anti-Shaking
Helps reduce the effects of shaking when taking a photo.

Capture Mode
Sets a timed delay before taking a photo.

Color
Apply a color filter to the photo.

Date Stamp
Imprints a date onto the capture photo.

Exposure
Adjusts the exposure in one-stop increments.

Image Size
Adjusts the size of the image. Higher megapixels = increased file sizes and details.

ISO
Changes the ISO settings. Higher ISO reduces motion blur at night but lowers video quality.

Quality
Changes the photo quality.

Sharpness
Change the amount of sharpening.

WDR
Shows that WDR is enabled.

Camera Settings

Video Playback Settings
Accessed in “Playback Mode”.

The settings apply only to the video being viewed and not all videos unless the “All” suffix is chosen.

Delete
Deletes the file from the card. This cannot be undone.

Slideshow
Shows a two second still image of all photos and the first frame of each photo.

Lock
Locks the current file from being overwritten or erased. Note: The “format” setting will erase all files including locked files.

Protecting or Deleting Your Videos
To delete or to protect files from being overwritten, press the menu button [ ] on the desired video. Select the command using the arrow buttons [ ] and press the select/record button [●/↵] to confirm. Press the menu button [ ] to exit.

If protected, a blue padlock icon will appear at the top of the screen.

Slideshow
Press the menu button [ ] and navigate to slideshow. Photos and the first frame of each video will be shown in order.

Transferring Files

Video files can be transferred to your electronic device for viewing and storage.

USB Mini Cable

1. Connect a USB-Mini cable from the camera's usb port to your computer.
2. Turn on your camera. A black screen should appear showing “Mass Storage”.
3. Press the “record/select” button [●/↵]. A blue screen should appear labelled “Mass Storage”.
4. Your computer should now detect a new device. The memory card and videos can be accessed similar to a USB Flash Drive.

Card Reader / MicroSD Slot

Use a memory card reader (separately purchased) or a compatible electronic device with a MicroSD slot (ex. tablet). Follow the manufacturer's instructions.

Video Output

HDMI (TV)

Connecting a mini-HDMI to HDMI from your camera to a compatible television/monitor will automatically output the cameras screen. Recording functions are disabled while streaming video.

AV Port

Using a 3.5mm AV cable, plug the 3.5mm connector into the camera's AV Port. Plug the RCA end into a compatible port on your television or monitor.

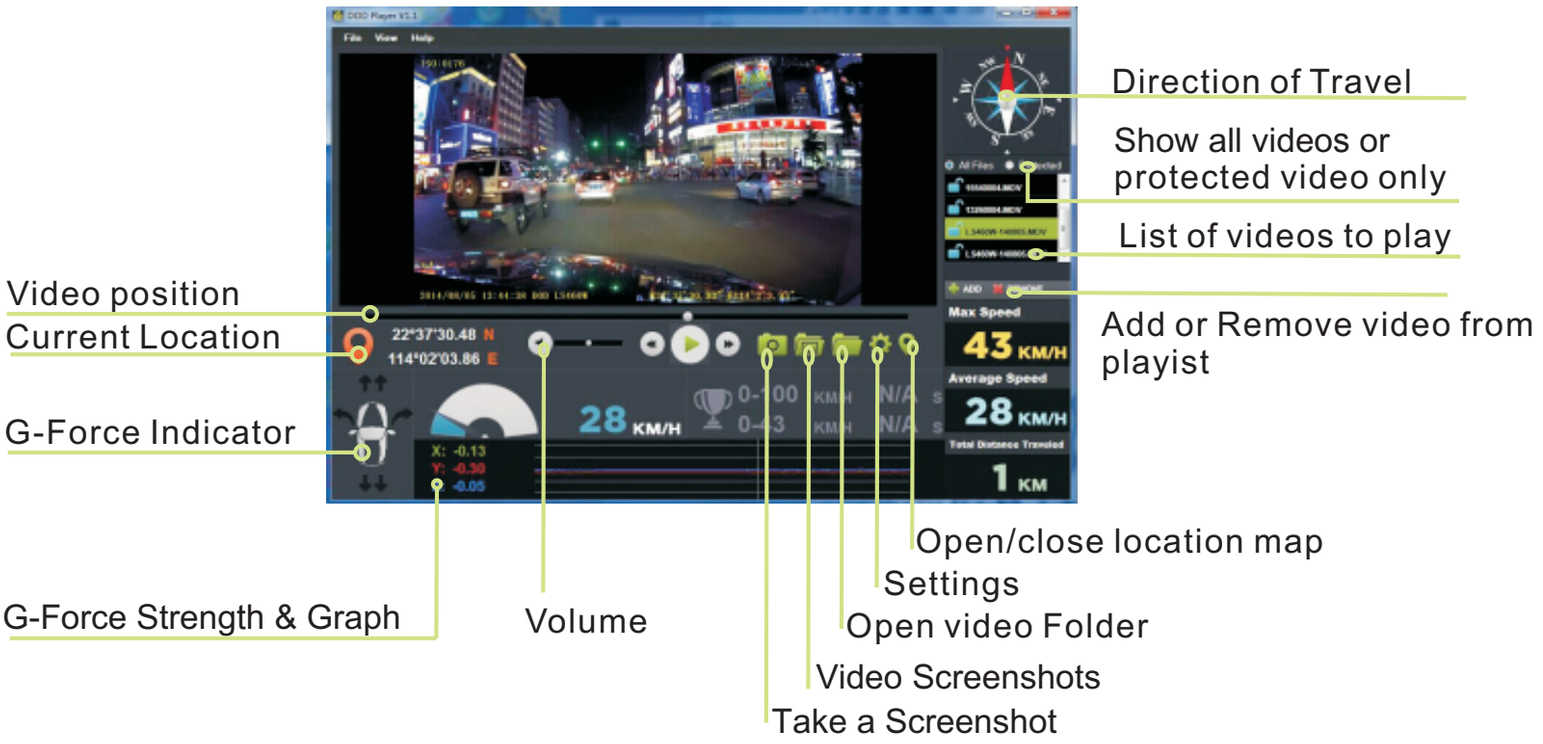
DOD Video Player

DOD Video Player

The DOD Video Player is a user-friendly program to playback videos and to visualize your position and speed on your PC or Mac. Please see the “Transferring Files” section to find out how to view or transfer your video files.

Installing the DOD Video Player:
Insert and launch the installer from the CD included or download the software from the support section on DOD Tech's website.

Launching the DOD Video Player
Once launched, the player will appear on your screen.



DOD Video Player

To Play a Video
Add your file to the list of videos. To do this, there are two options;
- Click File, click Open and navigate to the location of your files
- Press the Add button [

] located below the list of videos

Double click on the video you wish to play. The video will then load into the player.

Video Player Features
- Once the video is playing, your position, speed and G-Forces will be indicated on the map
- Pressing the “Location Map” Button will show your position on Google Maps

Firmware Update
See the support section on DOD-Tech's website for any available firmware updates and instructions

DOD™

www.dod-tec.com